

Comparison between speech discrimination findings after cochlear implantation using classic cochleostomy and round window approach

Thesis

Submitted for partial fulfillment of M.D. degree in Otorhinolaryngology

Presented by

Mohammad Mamdouh Ibrahim

M.B.B.Ch., M.Sc.

Supervised by

Dr/ Hossam Abd EL Ghaffar

Professor of audiology, Helwan University

Dr/ Sherif S. Guindi

Professor of Otorhinolaryngology, Fayoum University

Dr/ Waleed Ragab El Gabry

Associate Professor of Otorhinolaryngology, Fayoum University

Dr/ Sameh Mahmoud Amin

Associate Prof. Dr. of Otorhinolaryngology, Fayoum University

Faculty of Medicine

Fayoum University

2017

Abstract

Background: Speech discrimination is an important scale for evaluation and patient satisfaction in cochlear implantation surgery. To achieve better results many factors were discussed. An important factor is the portal of insertion of the electrode either through round window or classic cochleostomy.

Aim of the work: To compare speech discrimination scores after cochlear implantation using round window approach versus classic cochleostomy in prelingual children.

Patient and Methods: A comparative interventional prospective study on 40 patients divided into two groups, 20 were implanted using classic cochleostomy and the other 20 were implanted using round window approach. one year later the two groups speech discrimination scores were assessed.

Results: There was no statistically significant difference between two study groups as regards raw and age equivalent receptive, expressive and total scores.

Conclusion: As regarding speech outcome, there is no significant difference between the two approaches leaving the choice for the surgeon to choose the easier technique for each case with no worries about speech outcome.

Key words: Cochlear implantation, prelingual, speech discrimination, cochleostomy, round window.